		Recei	ving Kep	ort	-	
	nte: 12/5/23 applier: 711/26612	<u>-</u> <u>i</u> rh	Batch Dart	n No: <u>//)</u> P/O: <u>/ / (</u>	31836 6996	
Packing Slip: Invoice: Receipt:	Yes No No Cr	y Si Q	elease Note A /aybill Attache hipment Com C6 Inspection /ork Order	ed: Ye plete: Y	es No	
Discrepancies						
Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M2024	35.000	144	0	0	144	
M3451	SCA	128	0	0	12/2	22
M 3045	2260	125	0	U	128	
•		Initials	of receiver	if shipment	OK) Level	12/
			ð.	•	,	
Production/Adi Date Received/Cost Initial	<u> </u>				Locati	on
muui						

H:\FORMS\Purchasing\approved purch\RECREPORT Rev D

### Page 1 of 2

## Purchase Order Receipt Listing

Wednesday, May 23, 2012 10:37:20 AM

All amounts are calculated in domestic currency.

All Item ID/GL/WOs All Vendors PO ID PO16995 All Rec. Employees All Currencies Receipt Dates from 5/23/2012 to 5/23/2012 All Line Item Types

Grouped by Vendor ID

VendorID\Vendor Name CAD Purchase Order ID/ PO16995 Curr Type No Line Nbr/ No Insp Req S Z Z Z ö Project ID Reference/
Description/
Cert Std VC-COP001 M6061T6B0.250X06. 000 M6061T6B1.000X04. M6061T6B0.375X01. f 6.00 6061-T6 Bar .250 x 2.00 6061-T6 Bar .250 X M6061T6B0.250X02. t 6061 x 6 Bar 1.00 x 4.00 M6061T6B0,750X00, M6061T6B0.500X10. f 10.00 6061T6 BAR .375 x 6061-T6 Bar :750 x 6061-T6 Bar .500 x 121836 121836 121836 121836 121836 1.00 Thyssenkrupp Materials CA Ltd PO U/M / Stock U/M Required Date Required Qty 5/23/2012 5/23/2012 5/23/2012 5/23/2012 5/23/2012 5/23/2012 5/23/2012 36.0000 12.0000 24,0000 12.0000 24.0000 12.0000 Recy Emp 5/23/2012 5/23/2012 5/23/2012 5/23/2012 5/23/2012 DESJ02 DESJ02 D SJ02 DESJ02 DESJ02 DESJ02 Recy Date/ Recy Qty (PO U/M) 24.0000 12.0000 36.0000 12.0000 24.1000 Cost Per Unit/ Recv Value \$292.24 \$114.42 \$25.30 \$1.42 \$12.13 \$44.94 \$34.01 \$3.75 \$2.11 \$9.53Inspected Qty/ Rejected Qty (PO U/M) .0.0000 0.0000 0.0000 0.0000 0.0000 0,0000 0.0000 0.0000. 0.00e्र 0.0000 0.0000 0.0000 MRB Qty/ MRB Reject Book Amt \$292.24 \$44.94 \$25.30 \$114.42 \$34.01 \$34.01

121836

No: PEC 768051 BILL OF LADING Ship Date 18May12 at 12:22 From PFW Ship From: Probill THYSSENKRUPP MATERIALS NA VIM TRANSFER Via 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 9057389033 CONCORD FOB PREPAID Frt Route 0- 0 Manifest Trailer Vhcle Slp STAN IVERS (905-532-1350) Sold To: (20115) Ship To: DART AEROSPACE DART AEROSPACE BILL OF LADING 6) Our Order PEC-451877- 6 Your PO # 16995 ALUMINUM FLAT BAR 6061-T6511 Tag No Quantity
12 FT 1.00" x 4.00" X 144.0000" Heat Number 68356 Z00217036 7) Our Order PEC-451877- 7 Your PO # 16995 ALUMINUM ROUND BAR 6061-T6511 3.00" DIA X 96.0000" Quantity 8 FT 3.00" DIA X 96.0000"

Heat Number Tag No

Z00067065 68473 8) Our Oxder PEC-451877- 8 Your PO # 16995 STAINLESS STEEL SHEET 304-2B
.0600 Nom X 48.0000" X 96.0000"
Heat Number Tag No Quantity PCS
300212 68103 128.00 SFT 4 9) Our Order PEC-451877- 9 Your PO # 10222 STAINLESS STEEL SHEET 304-2B .0300 Nom X 48 0000" X 120 0000" Heat Number Tag No Quantity PCS YU161154 68104 160.00 SFT 4 Tags PCS LBS 849 TOTAL: \*\*\* Chemical Analysis \*\*\* Heat Number 16276 201204762 2BQ819 300212 65016 079 YU161154 Page: 2 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

2 3 MAI 2012

BILL F

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 9057389033

Ship To: DART AEROSPACE

Ship From:

LADING No: PEC 768051 Ship Date 18May12 at 12:22 From PFW Probill Via VIM TRANSFER FOB CONCORD Frt PREPAID Route 0- 0 Manifest Trailer Vhcle STAN IVERS (905-532-1350) gla

\_\_\_\_\_\_

The state of the s

( 20115) Sold To:

DART AEROSPACE

OF LADING BILL

Z00067065 Z00217036

ADD ON TO 451875 SUR-CHARGE PAID

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

TOTAL 1 BDL, 1 PKG, 1 SKID G.W. 953 LBS

ITEMS (1 TO 6) BDL

ITEM (7) PKG ITEMS (8,9) SKID

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA CONCORD, ONT. \* \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*

WE STOCK STAINLESS STEEL

PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER. \*\*\*

Last Page:

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

2 3 MAI 2012

DATE

ALUMINUM FLAT BAR 6061.T6511 .250" x 2.00" X 144.0000" DART AEROSPACE

PO/Rel 16995

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

Signed by:

BL PEC-768051-001

18May12 Pg 1/1



411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4 TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210 http://www.extrudex.com

### MILL TEST REPORT

BILL TO

Mechanical Properties

0

Alloy

Test Date

Ultimate Tensile Strength (KSI)

Yield Strength

Hardness

Conductivity

(KSI)

Elongation Percent

CUSTOMER PO

PEC-237301

Cert Cade:

2226	
3/16/2012	DATE OF SHIPMENT
143141 - 4	EXTRUDEX ORDER NO.

143141 MADE IN CANADA

MANIFEST NO

262756

CERTIFICATION

CUSTOMER PART NUMBER 1-250-2000

MILL TEST ASTM B22

### **Chemical Composition**

A. 11

6061

Mar/15/12

42.7

38.9

18.50

89.3, 89.4, 89.6

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76 6061

0.56 <u>|(7)</u>

0.19 0.19 Fe 5 0.06 M 0.82 0.05 Q 0.00 ₹. 0.01 Zn 0.01 0.00 Ga 0.00 K 0.00 (CO) 0.00 Ľ 0.00 ĮΨ 0.00 밁 0.00 S 0.00 Ŕ 0.00Remainder 0.00 ပြ

≥

Other

David Natale

Quality Control Manager

Doc No. 130465

Indexed 19Mar12 by slssup1

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511 .250" x 6.00" X 144.0000" PART NO.

PO/Rel 16995

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate	of	Mill	Test	Results
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BL PEC-768051-002

18May12 Pg 1/1

Signed by:

### FABRICATED PRODUCTS

### **CERTIFIED TEST REPORT**

http://Online.KaiserAluminum.com

KAISER ALUMINUM **FABRICATED PRODUCTS, LLC** 5205 KAISER DRIVE KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:	CUSTOME	R PART NUMBER:	PRODUCT DESCRIPTION		
PEC-238315-2	ALREC	00892	.250 X 6.000 PRE	CISION WIDE	BAR
KAISER ORDER NUMBER: LINE	TEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
618123 002		04/13/2012	65016 079	6061	T6511B
WEIGHT SHIPPED: QUAI	TITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
1016.000 LB 48.0	00 PCS	603156	1		12.000 FT
SHIP TO: THYSSENKRUPP MATI 2821 LANGSTAFF ROA	D		SOLD TO: THYSSENKRUPP 2821 LANGSTAFI	ROAD	
CONCORD, ON L4K 50	6 CANADA		CONCORD, ON L	4K 506 CANAL	JA.

### **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YT	TS(KSI) ELONG% HARDNESS CONDUCT		YTS (KSI)		CONDUCT.	BEND	
65016 079	0001	0001	49.1	111	43.7		17.7	RE	95	N/A	N/A
.65016 079	0001	0002	49.4		43.8	1	19.1	RE	97	N/A	A/K
65016 079	0001	0003	49.5		44.3		18.4	RE	96	N/A	N/A
65016 079	0001	0004	49.5		44.4		18.3	RE	96	N/A	N/A
65016 079	0001	0005	49.8		44.3		18.3	ŘE	96	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00

### Applicable Requirements:

PER ASTM-B221-08, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-2C0/8 UNS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA)

MELTED IN USA

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Page 1 of 1

Quality & Technology Manager

Plant Serial: 00039148

Kaiser Order Number: 618123

Line Item: 002

### DART AEROSPACE THYSSENKRUPP MATERIALS NA

ALUMINUM FLAT BAR 6061-T6511 .375" x 1.00" X 144.0000" PART NO.

PO/Rel 16995

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-768051-003

18May12

II A UMINUM

411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4 TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210 http://www.extrudex.com

### MILL TEST REPORT

Cert Code:

CUSTOMER PO

THYSSENKRUPP MATERIALS, NA THYSSENKRUPP MATERIALS, NA .375"x1" FB

**Mechanical Properties** 

0

Alloy

Test Date

Ultimate Tensile Strength (KSI)

Yield Strength

(KSI)

Elongation Percent

Hardness

Conductivity

**CUSTOMER PART NUMBER** PEC-237301 1-375-1000 0.86 ALLOY PART DESCRIPTION DIE NUMBER 6061 S 2222 TEMPER T6511 SALESMAN DATE OF SHIPMENT

FORBES DODWELL 3/20/2012 CERTIFICATION 143141 MILL TEST ASTM B221 MADE IN CANADA

EXTRUDEX ORDER NO. MANIFEST NO

### **Chemical Composition**

A.11

906

Mar/16/12

42.6

39.1

17.30

88.3,87.9,88.0

A.11 2BQ819 6061

Cast Number 0.64

<u>(v)</u> 0.16 0.21 2 0.03 ₹ S 0.88 Mg 0.07 ļΩ 8 Z 0.01 17 0.01 0.00 Ga 0.0 1 0.00 |œ 0.8 Ľ 0.00 0.00 100 띪 0.00 S 0.00 180 0.00Remainder 0.02 ပြ

≥

Other

Quality Control Manager

David Natale

1 - CUSTOMER COPY

Doc No. 130750

Indexed 21Mar12 by slssup1

MILL TEST REPORT

### DART AEROSPACE THYSSENKRUPP MATERIALS NA

ALUMINUM FLT BAR ECONOPLT 6061-T6511 500" X 10.00" X 144.5000"

PO/Rel 16995

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results BL PEC-768051-004

Pg 1/1



### SERVICE CENTER METALS Prince George, VA 23875 5850 Quality Way

### CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification OL THE ThyssenKrupp Materials NA PEC ThyssenKrupp Materials NA Quantity Certified 1,982 lbs 28pcs CUSTOMER PART NUMBER MANIFEST NUMBER PL0734 X 144.5 PEC-237995 156448 PL .500 x 10.00 DESCRIPTION ALLOY / TEMPER 6061-T6511E PL0734 SALESPERSON DATE OF SHIPMENT David Schroeder 4/11/2012 AMS-QQA-200/8 ASTM-B221-08 StencilContinuous CERTIFICATION SPECIFICATION DUR ORDER NUMBER 147904

		Tests Lot No. 1 201205804	Mechanical Properties
a 12/0	L 564	04/01/12	lest Date
		<u>Strength (KSI)</u> 44.9	Ultimate Tensile
			Yield Strength
		Elongation 14.5	Percent

SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

description, and that samples representative of the material met the composition limits and had the mechanical properties shown. revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the

0312179 Chemical Composition for Aluminum Alloy 6061 Cast Number Alloy 6061 0.70 S 0.29 Fe 5 S 0.87 Mg 0.09 S  $\underline{N}$ 0.04 0.02 Each 0.05 Others <u>Total</u> 0.15 Print Date: 4/11/2012 United States of America Melted In

### DART AEROSPACE THYSSENKRUPP MATERIALS NA

ALUMINUM SQUARE BAR 6061-T6511 .750".X 144.0000"

PO/Rel 16995

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results BL PEC-768051-005

Pg 1/1 18May12



### SERVICE CENTER METALS Prince George, VA 23875 5850 Quality Way

### CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

ü

BILL TO ThyssenKrupp Materials NA ThyssenKrupp Materials NA PEC Quantity Certified 666 lbs 84pcs MANFEST NUMBER CUSTOMER PART NUMBER PEC-237623 SQ0039 155267 DESCRIPTION DIE NUMBER SCSB .750 ALLOY / TEMPER 6061-T6511 SQ0039 SALESPERSON DATE OF SHIPMENT David Schroeder 3/27/2012 AMS-QQA-200/8 ASTM-B221-08 StencilContinuous SPECIFICATION CERTIFICATION OUR ORDER NUMBER 146731

description, and that samples representative of the material met the composition limits and had the mechanical properties shown. revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification meet the requirements of 6061-T6 Items produced and certified as 6061-T6511 also

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		11.4	Percer ongati
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SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Chemical Composition for Aluminum Alloy 6061 Cast Number Alloy 100 la B 5 S Mg ĮΩ 71  $|\Box|$ Others Total

Print Date: 3/27/2012

Calvin J. Wiggins. Director of Quality & Technical Services

030423

6061

0.76

0.37

0.32

0.11

0.88

0.10

0.06

0.02

0.05

Each

United States of America

Melted in

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511 1.00" x 4.00" X 144.0000" PART NO.

### PO/Rel 16005

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

	tificate of Mill Test Resu	Test Resul	7	Mil	of	cate	tifi	Cer	(
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BL PEC-768051-006

18May12 Pg 1/2

KAISER	?
ALUMINUM	
FARRICATED PRODUCTS	



### **CERTIFIED TEST REPORT**

Signed by:

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

CUSTOMER PO NUMBE	R:	CUSTOMER PART N	UMBER:	PRODUCT DESCRIPTION:						
PEC-238315-5		ALREC00750		1.000 X 4.000 SC RECT BAR						
KAISER ORDER NUMBE	R: LINE ITEM:	SHIP D	ATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:				
618123	005	04/13	V2012	Z00217036	6061	T6511				
WEIGHT SHIPPED:	QUANTITY:	B/L NUI	MBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:				
2032.000 LB	36.000 P	CS 6031	56			12.000 FT				
SHIP TO:				SOLD TO:		112.00011				

THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA

### **Actual Physical Properties**

REFERENCE	DASH#	Sample#	UTS (KSI)	YTS (KSI)	i.	ELONG%	HARDI	NESS	CONDUCT.	BEND
Z00217036	0001	1	50.6	46.8		17.1	RE	94	N/A	N/A
200217036	0001	2	51.6	48.3		17.1	RΞ	91	N/A	N/A
200217036	0001	3	55.5	52.1		16.3	RΞ	94	N/A	N/A
200217036	0001	4	54.7	51.6		14.9	RΞ	94	N/A	N/A
Z00217036	0001	5	52.6	59.5		17.1	RΞ	94	N/A	N/A
Z00217036	0002	1	50.5	47.0		12.9	RΞ	95	N/A	N/A
Z00217036	0002	2	49.0	46.1		11.8	RE	93	N/A	N/A
Z00217036	0002	3	51.9	48.6		18.1	RE	91	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

Si	Fe	C	u Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
0.80	0.70	0.4	0 0.15	1.20	0.35	0.25	0.15	NA	NΔ	NΩ	C 05	0.15
0.40	0.00	0.1	5 0.00	0.80	0.04	0.00	0.00	NA.				
.76									.00	.00	.01	0.00
	0.80	0.80 0.7C 0.40 0.0C	0.80 0.7C 0.4 0.40 0.3C 0.1	0.80 0.7C 0.40 0.15 0.40 0.0C 0.15 0.00	0.80 0.7C 0.4G 0.15 1.20 0.40 0.0C 0.15 0.00 0.80	0.80 0.7C 0.4C 0.15 1.20 0.35 0.40 0.0C 0.15 0.00 0.80 0.04	0.80 0.70 0.40 0.15 1.20 0.35 0.25 0.40 0.00 0.15 0.00 0.80 0.04 0.00	0.80 0.70 0.40 0.15 1.20 0.35 0.25 0.15 0.40 0.00 0.15 0.00 0.80 0.04 0.00 0.00	0.80 0.7C 0.40 0.15 1.20 0.35 0.25 0.15 NA 0.40 0.0C 0.15 0.00 0.80 0.04 0.00 0.00 NA	0.80 0.70 0.40 0.15 1.20 0.35 0.25 0.15 NA NA 0.40 0.05 0.15 0.00 0.80 0.04 0.00 0.00 NA NA	0.80 0.70 0.40 0.15 1.20 0.35 0.25 0.15 NA NA NA NA 0.40 0.30 0.15 0.00 0.80 0.04 0.00 0.00 NA NA NA NA	0.80 0.70 0.40 0.15 1.20 0.35 0.25 0.15 NA NA NA C.05 0.40 0.00 0.15 0.00 0.80 0.04 0.00 0.00 NA NA NA C.00 7.6 34 2.6 0.00 0.30 0.04 0.00 0.00 NA NA NA C.00

### Applicable Requirements:

ASTM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

Page 1 of 2

MANUFACTURED IN USA MELTED IN USA

ist astal

Plant Serial: 00039151

Kaiser Order Number: 618123

Line Item: 005

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511 1.00" x 4.00" X 144.0000" PART NO. PO/Rel 16995

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs. **Certificate of Mill Test Results** 

BL PEC-768051-006

18May12 Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

A Billion

**CERTIFIED TEST REPORT** 

Signed by:\_

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

12/05/21

Plant Serial: 00039151 Kaiser Order Number: 618123

Line Item: 005

Page 2 of 2

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511 3.00" DIA X 96.0000" PART NO.

PO/Rel 1600

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate	of Mill	Test R	eculte
CG illicate	VI IVIIII	1 621 1	counts

BL PEC-768051-007

18May12 Pg 1/2

KA	IS	E	R
ALL	IMI.	NU	M
FABRIC/	ATED PI	RODUC	:TS

### **CERTIFIED TEST REPORT**

Signed by:

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:	PRODUCT DESCRIPTION	PRODUCT DESCRIPTION:					
PEC-238749-8		ALRD00114	KAISERSELECT I	AISERSELECT PRECISION ROD 3.000+/008					
KAISER ORDER NUMBER	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:				
619057	008	05/01/2012	Z00067065	6061	T6511B				
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:				
2194.000 LB	22:000 PC	S 603292			12.000 FT				
SHIP TO:			SOLD TO:	<b></b>					
THYSSENKRUPP 1 2821 LANGSTAFF CONCORD, ON L4	ROAD		THYSSENKRUPP 2821 LANGSTAFF CONCORD, ON L	ROAD					

### **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDI	NESS	CONDUCT.	BEND
Z0C067065	0001	1.	52.8	49.6	15.8	RE	93	N/Λ	Γ/Λ
Z00067065	0001	2	49.3	46.1	18.5	RE	93	N/A	K/A
200067065	0002	1	51.7	49.1	16.1	RE	92	N/A	N/A
ZC0067065	0002	2	52.9	50.4	17.0	RE	92	N/A	N/A
200067065	0002	3	53.3	48.5	13.8	RE	94	N/A	N/A
ZC0067065	0002	4	53.3	50.6	15.4	RE	93	N/A	N/A
ZC0067065	0003	1	53.5	49.9	17.1	RE	95	N/A	N/A
ZC0067065	.0003	2	53.3	49.6	16.4	RE	94	N/A	N/A
ZC0067065	0003	3	57.4	55,0	14.1	RE	92	N/A	N/A
Z00067065	2003	4	54.4	51.7	13.0	RE	94	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum Minimum 101481	0.40	0.00	C.40 C.15 .27	0.00	0.80	0.04	C.00	0.00	NA NA . OC	AN AN CO		0.05 0.00 .01	0.15

### Applicable Requirements:

PER ASTM-B221-08, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 UNS# A96061 MEETS ALL SPECIFICATION REQUIREMINIS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

Plant Serial: CC041292

Kaiser Order Number: 619057

Line Item: 008

Page 1 of 2

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511 3.00" DIA X 96.0000" PART NO. PO/Rel 1699

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs. **Certificate of Mill Test Results** 

BL PEC-768051-007

18May12 Pg 2/2

Signed by: P



### **CERTIFIED TEST REPORT**

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yen, Quality & Technology Manager

Plant Serial: 00041292

Kaiser Order Number: 619057

Line Item: CO8

STAINLESS STEEL SHEET 304-2B .0600 Nom X 48.0000" X 96.0000" PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

**Certificate of Mill Test Results** 

Signed by:

BL PEC-768051-008

18May12 Pg 1/1

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Name of sopert / Nombre del experto / Name des Sachverständigen

Signed by:

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs. PO/Rel 16995

# MILL TEST CERTIFICATES

YIEH MAU CORP.

COMMODITY

F10M927-1 PRIME COLD ROLLED STAINLESS STEEL SHEET

345, SHUN AN KID LU CHIH ISIANG KAMISHUNG HSIEN TAIWAN HOAC TELLOT 8872/85 PAX 01/16973/00 CERTIFICATE NO. P10M927-L

167501

DATE OF ISSUE: 10/08/2010

AISI 304 ASIM A240/A480 and ASME SA240/SA480
OLBERT METAL SALES LIMITED

CUSTOMER SPECIFICATION:

STZE   NO.
Physical Properties
Physical Properties
Physical Properties
Physical Properties
Physical Properties
Chemical Forestics
Chemical Composition   Chemical Composition   C   S   Nin   C   S   S   S   S   S   S   S   S   S
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Chemical Compassion  (***)  (*
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YIEH MAUCORP.

Manager of Quidity Ass

Indexed 22Feb11 by slssup1

Doc No. 105224



Tel: 613 632 9577 Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO16995.

Purchase Order Date 5/16/12 PO Print Date 5/17/12

Page Number 1 of 4

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607 Net 30

Terms Currency

CAD

FOB

Destination-Collect

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Req Qty/ Taxable Unit of Measure	Ship Method	Unit Price	Extended Price
M	12024T3S.050	2024-T3 .050 sheet	5/23/12 144.00 Yes s	• •	\$4.8958	\$705.00
*	¥			1		
		Special Inst:	MATERIAL: 2024-T3 ALUMINU AS PER QQ-A-250/4 OR AMS-QQ-A-250 AMS 4037 OR ASTM B209			+
<u>2</u> N	M6061T6B0.250X02.000	6061-T6 Bar .250 X 2.00	5/23/12 12.00 Yes	Yours ppd f	\$2:0833	\$25.00
,		Special Inst:	MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALU BAR AS PER QQ-A-225/8 OR AMS-Q OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A AMS 4160 OR ASTM B211 OR ASTM B221	QQ-A-225/8		
3	M6061T6B0.250X06.000	6061-T6 Bar .250 x 6.00	5/23/12 12.0 Yes	Yours ppd f	\$3.7000 \$2.3	*44.40

No substitution or deviation without

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

2

Change Date: 5/17/12



Tel: 613 632 9577 Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO16995

Purchase Order Date 5/16/12 PO Print Date 5/17/12

Page Number 2 of 4

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax 905 738 9033

ديب

Vendor Account Nbr

Buyer

Requisition, Nbr

Tax Resale Nbr Terms

Net 30

Currency

CAD

**FOB** 

Destination-Collect

Chantal Lavoie

10127-2607

Special Inst:

MATERIAL: 6061-

T6/T651/T6510/T6511/T62 ALUMINUM

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8

OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR

AMS 4160 OR ASTM B211 OR

ASTM B221

M6061T6B0.375X01.000

6061T6 BAR .375 x 1.00

5/23/12

36.00 Yours ppd \$0.9333

\$33.60

002

Special Inst:

MATERIAL: 6061-

Yes

T6/T651/T6510/T6511/T62 ALUMINUM

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8

OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR

AMS 4160 OR ASTM B211 OR

ASTM B221

M6061T6B0.500X10.000

6061-T6 Bar .500 x 10.00

5/23/12 Yes

24.00 Yours ppd

24.10 Jun/23

\$287.52 .

Special Inst:

MATERIAL: 6061-

T6/T651/T6510/T6511/T62 ALUMINUM

BAR

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8

OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR

AMS 4160 OR ASTM B211 OR

ASTM B221

M6061T6B0.750X00.750

6061-T6 Bar .750 x .750

5/23/12 Yes 24.00 Yours ppd

\$1.4000

\$33.60

00 3

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

Change Date: 5/17/12



Tel: 613 632 9577 Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO16995

Purchase Order Date 5/16/12 PO Print Date 5/17/12

Page Number 3 of 4

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr Terms

10127-2607 Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL: 6061-

T6/T651/T6510/T6511/T62 ALUMINUM

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8

OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR

AMS 4160 OR ASTM B211 OR

ASTM B221

M6061T6B1.000X04.000

6061-T6 Bar 1.00 x 4.00

5/23/12

12.00 Yours ppd

\$9,4200

\$113.04

Special Inst:

MATERIAL: 6061-

Yes

T6/T651/T6510/T6511/T62 ALUMINUM BAR

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8

OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR

AMS 4160 OR ASTM B211 OR

ASTM B221

M6061T6S.063

6061-T6 .063 Sheet

5/23/12

480.00

\$1,190.00

Yes

2.437125

Special Inst:

MATERIAL; 6061-T6/T62 ALUMINUM

SHEET

AS PER QQ-A-250/11 OR AMS-QQ-A-

250/11 OR AMS 4025

OR AMS 4027 OR ASTM B209

M304S16GA

304/316 Sheet .063

5/23/12

128.00 Yours ppd

\$4.5141

\$577.80

Yes

sf

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

2

Change Date:

5/17/12



Tel: 613 632 9577 Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO16995

Purchase Order Date 5/16/12 PO Print Date 5/17/12

Page Number 4 of 4

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nhez

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr Terms

10127-2607 Net 30

Currency

CAD

**FOB** 

Destination-Collect

Special Inst:

MATERIAL: AISI 304/316 SS SHEET

ANNEALED 2B FINISH

AS MIL-S-5059 OR AMS 5513 (304) OR

AMS 5524 (316)

OR ASTM A240 OR ASME SA240

M304S22GA

304/316 .032 Sheet

5/23/12

Yours ppd 128.00

\$3.3242

\$425.50

Yes

sf

Special Inst: MATERIAL: AISI 304/316 SS SHEET

ANNEALED 2B FINISH

AS MIL-S-5059 OR AMS 5513 (304) OR

AMS 5524 (316)

OR ASTM A240 OR ASME SA240

PO Total:

\$3,435.46



No substitution or deviation without consent.

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

Change Date: 5/17/12